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Amendments to the Specification:

Please replace the paragraph beginning at page 3, line 20, with the following rewritten paragraph:

-- [3] The fusion joining device for plastic tubes (T) as stated in item [1], wherein
said pair of heaters (40) ~~are~~ is connected in series with each other --

Please replace the paragraphs beginning at page 5, line 31, with the following rewritten paragraphs:

-- The pair of heaters (40) is made of a resistance heat generation material in the shape of a sheet, thus the thickness of the heaters (40) can be minimized. Thereby, the device body can be made compact. The member for heat conduction (20) ~~need not be of~~ does not need to have a complicated configuration, incorporating the heater (40), which results in both the member for heat conduction (20) and the heater (40) being configured simply, thereby the manufacturing cost can be reduced.

With a fusion joining device for plastic tubes that comprises a supporting head (50) which removably supports the fusion joining head (10) and a heating circuit (60) for supplying power to said fusion joining head (10) side through the supporting head (50), providing a plurality of types of fusion joining head (10) which ~~are~~ is suited to the respective diameters of the joint portion (T1) to be fusion joined allows the respective types of fusion joining head (10) to be pivotably supported by a single supporting head (50). In addition, the heating circuit (60) comprises a pair of head electrodes (61, 62), and when the fusion joining head (10) is to be loaded onto the supporting head (50), the pair of head electrodes (61, 62) ~~are~~ is connected to each other, thus the operation of loading the fusion joining head (10) and the operation of connecting the pair of head

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electrodes (61, 62) can be performed at a time, resulting in an improved operability. --

Please replace the paragraph beginning at page 6, line 27, with the following rewritten paragraph:

-- With a fusion joining device for plastic tubes in which the heating circuit (60) supplies power to the pair of heaters (40) in the fusion joining head (10), and the pair of heaters (40) are is connected in series with each other, making the pair of heaters (40) ~~to~~ have the same configuration and the same resistance will result in the same quantity of electricity flowing through the pair of heaters (40), respectively, and thus the same quantity of heat being generated from the pair of heaters (40), which means that the joint portion (T1) can be heated practically uniformly from both sides through the pair of members for heat conduction (20), and thus the joint portion (T1) can be properly fusion joined. --

Please replace the paragraph beginning at page 11, line 36, with the following rewritten paragraph:

-- The pair of clampers 30 ~~comprise~~ comprises opposed surfaces 38 and the accommodation recesses 35, the opposed surfaces 38 being surfaces which are opposed to each other when the pair of clampers 30 is in the closed position, and being provided with heat insulation members 71 made of ceramics. The accommodation recess 35 is a recess provided in the opposed surface 38 for accommodating the heater 40 and the member for heat conduction 20. --

Please replace the paragraph beginning at page 13, line 27, with the following rewritten paragraph:

-- The heating circuit 60 comprises a pair of clamper electrodes 65, 66, the one-side clamper electrode 65 being

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provided in the one-side clasper 30, and being connected to the positive side of the power supply through the one-side heater 40 and the pair of head electrodes 61, 62. The other-side clasper electrode 66 ~~being~~ is provided in the other-side clasper 30, and ~~being~~ connected to the negative side of the power supply through the other-side heater 40 and the pair of head electrodes 61, 62. The pair of clasper electrodes 65, 66 is connected to each other by means of a jumper wire 67. Through the jumper wire 67, the pair of heaters 40 is connected in series with each other. The pair of clasper electrodes 65, 66 is screwed such that the end portion 45 of the heater 40 is sandwiched by the clasper electrode 65, 66. The sandwiched portion 45b of the end portion 45 of the heater 40 that is sandwiched by the clasper electrode 65, 66 has approximately the same width of the clasper electrode 65, 66. --

Please replace the paragraph beginning at page 15, line 33, with the following rewritten paragraph:

-- Where the diameter of the joint portion T1 to be fusion joined varies, it is necessary to provide a plurality of types of fusion joining head 10 that ~~are~~ is suited for the respective diameters of the joint portion T1 to be fusion joined. On the other hand, it is not necessary to provide a plurality of types of supporting head 50 that ~~are~~ is suited for the respective diameters of the joint portion T1. Because the supporting head 50 removably supports the fusion joining head 10, a plurality of types of fusion joining head 10 can each be supported by a single supporting head 50. Thereby, the number of supporting heads 50 to be provided may be reduced. --

Please replace the paragraph beginning at page 21, line 14, with the following rewritten paragraph:

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-- Further, the pair of heaters ~~are~~ is connected in series with each other, thus the same quantity of heat is generated from the pair of heaters when the joint portion is fusion joined, which means that the pair of heaters can heat the joint portion practically uniformly from both sides through the pair of members for heat conduction. Further, the pair of heaters is connected in series with each other through the pair of clamper electrodes such that, at least when the pair of clampers is pivoted to the closed position, the pair of clamper electrodes is connected to each other, thus in fusion joining the joint portion, the pair of heaters can generate the same quantity of heat. --